Distributed Coding and Computing for Networks

Mots clés :

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- Co-encadrant(s) :
- Unité de recherche : Laboratoire Traitement et Communication de l'Information
- Ecole doctorale : École Doctorale Informatique, Télécommunications, Électronique de Paris
- Domaine scientifique principal: Divers

Résumé du projet de recherche (Langue 1)

This PhD will investigate the design of coding schemes for next generation cellular systems where mobile terminals are served by small cells and interact with cloud computing resources. The main investigations will concern receiver aware multi-point to multi-point coding schemes where the complexity of decoding is taken into account. LDPC codes and network coding will be leveraged in order to balance the complexity between the online computing resources and the processing borne by mobile terminals.